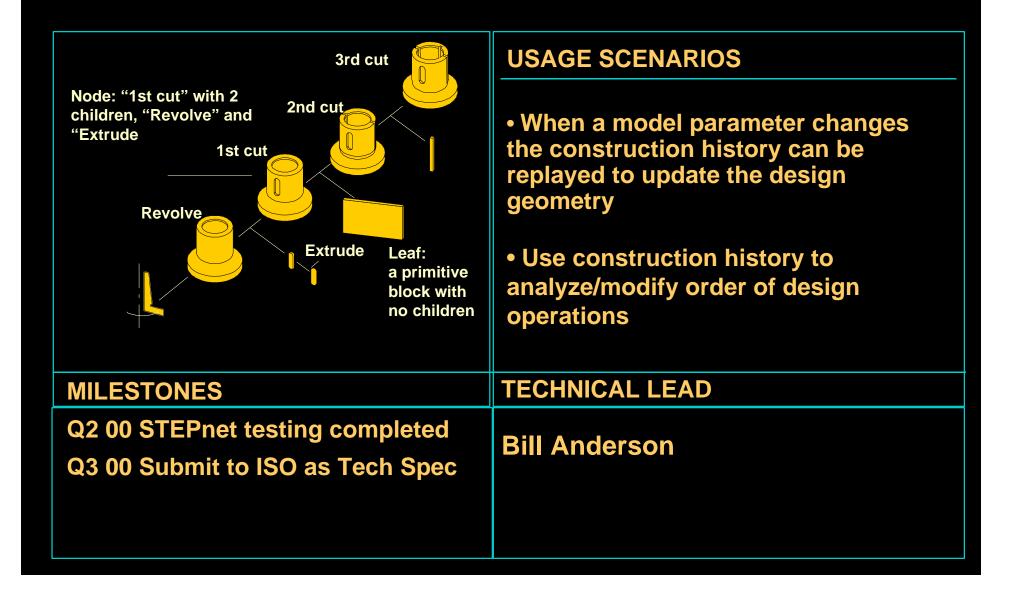


Construction History





Solid Model Construction History Accomplishments Since the Last Offsite

- Obtained broader set of user requirements from PDES, Inc. member companies
 - Constructive Solid Geometry (CSG) history for long term retention
 - Exchanges between CATIA, UG, Pro/E, ICAD, IDEAS
 - Modify design data in receiving system
 - Model transfer that supports reconstruction with correct dependencies among features
- Identified two separate modules
 - Exchange only Construction History (no geometric constraints)
 - Exchange both Construction History and Geometric Constraints
 - Construction History module would use Geometric Constraints Module



Solid Model Construction History Accomplishments Since the Last Offsite (Con't)

- Scope to include Constructive Solid Geometry plus
 - Operands can be Advanced Brep solids or Faceted Brep solid models with operators (union, difference, intersection)
 - Capture the procedural operations plus the evaluated Brep as part of the history
 - Additional primitives included from Part 42 version 2
 DIS
- Presentation to ISO Parametrics Group as short term proof-of-concept



Solid Model Construction History Plans for Next Quarter

- Complete ARM diagrams and model interpretation
- Develop usage guide
- Complete necessary module documentation



Solid Model Construction History Challenges

- Testing of Construction History in near term
 - Work closely with ProSTEP to increase joint priority
- Work with ISO Parametrics Group in development of longer term history-based (procedural) approach
 - Seek additional funding support